CLAIMS:

1. A communication method in a Code Division Multiple Access radio system using a transmission power control based on a Signal Interference Ratio measurement, the method comprising:

communicating between at least two transceivers of a radio system using a packet switched connection through a radio interface;

measuring a quality of the packet switched connection;

adjusting a target Signal Interference Ratio based on the quality measured;

transmitting, from a transceiver receiving packets, a request to retransmit at least one packet having a failed reception;

retransmitting, from a transceiver transmitting packets, at least one retransmission packet requested as a response to the request; and

controlling a transmission power by setting a lower target SIR for retransmission of a retransmission packet than the target Signal Interference Ratio for a first transmission of a corresponding packet.

2. The method of claim 1, further comprising:

defining a specific target Signal Interference Ratio for at least one retransmission of the retransmission packet.

3. The method of claim 1, further comprising:

setting a lower target Signal Interference Ratio for a dedicated control channel between transmissions of packets than during transmissions of the packets.

4. The method of claim 1, further comprising:

transmitting, from the transceiver receiving packets, a transmission strength at which to retransmit the at least the one packet having the failed reception.

5. The method of claim 1, further comprising:

setting the lower target Signal Interference Ratio according the algorithm:

$$Target_SIR(N^{th}) = Target_SIR(master) - Step(N^{th})[dB],$$

where Target_SIR(Nth) denotes the SIR of an Nth retransmission of a packet, Target_SIR(master) denotes the target SIR of the first transmission of a packet, Step(Nth) denotes an amount by which to decrease the transmission power of the retransmission, and N is an ordinal number denoting an index of retransmission.

- 6. A communication arrangement in a Code Division Multiple Access radio system using a transmission power control based on a Signal Interference Ratio measurement, the arrangement comprising:
- at least two transceivers of the radio system for communicating with a packet switched connection through a radio interface;
- a measuring mechanism for measuring a quality of the packet switched connection;
- an adjusting mechanism for adjusting a target Signal Interference Ratio based on the quality measured:
- a transceiver receiving packets for transmitting a request to retransmit when there is a failure to receive at least one packet;
- a transceiver transmitting packets for retransmitting at least one retransmission packet requested as a response to the request; and
- a controller for setting a lower target Signal Interference Ratio for retransmission of a packet than the target Signal Interference Ratio for a first transmission of the corresponding packet.

- 7. The arrangement of claim 6, wherein the arrangement is configured to define a specific target Signal Interference Ratio for at least one retransmission of the retransmission packet.
- 8. The arrangement of claim 6, wherein the controller is configured to set a lower target Signal Interference Ratio for a dedicated control channel between transmissions of packets than during the transmission of the packets.
- 9. The arrangement of claim 6, wherein the transceiver receiving the packets is configured to transmit a transmission strength at which to retransmit at least the one packet having a failed reception.
- 10. The arrangement of claim 6, wherein the controller is configured to set the lower target Signal Interference Ratio according to the algorithm:

 $Target_SIR(N^{th}) = Target_SIR(master) - Step(N^{th})[dB],$ where Target_SIR(N^{th}) denotes the SIR of an N^{th} retransmission of a packet, Target_SIR(master) denotes the target SIR of the first transmission of a packet, Step(N^{th}) denotes an amount by which to decrease the transmission power of the retransmission, and N is an ordinal number denoting an index of retransmission.

11. A communication arrangement in a Code Division Multiple Access radio system using a transmission power control based on a Signal Interference Ratio measurement, the arrangement comprising:

communicating means for c9ommunicating between at least two transceivers of a radio system using a packet switched connection through a radio interface;

measuring means for measuring a quality of the packet switched connection;

adjusting means for adjusting a target Signal Interference Ratio based on the quality measured;

transmitting means for transmitting, from a transceiver receiving packets, a request to retransmit at least one packet having a failed reception; retransmitting means for retransmitting, from a transceiver transmitting packets, at least one retransmission packet requested as a response to the request; and

controlling means for controlling a transmission power by setting a lower target Signal Interference Ratio for retransmission of a retransmission packet than the target Signal Interference Ratio for a first transmission of a corresponding packet.